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U-75R UHF Antenna

BEFORE YOU BEGIN

Before you begin installation, read this manual and the separate Consumer Product Safety Commission information sheet. For your safety and convenience, plan each step of the installation and purchase the necessary hardware in advance. The hardware required and the order in which you perform the steps depend on the mounting and connection method you choose.

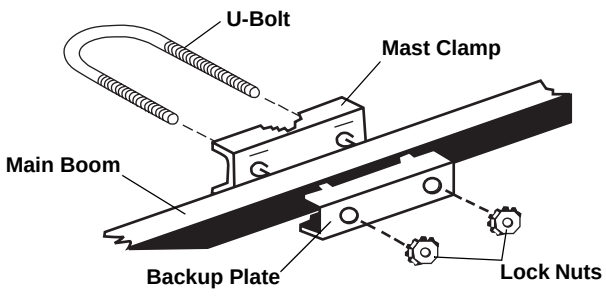
Warning: When you install your antenna, use extreme caution. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches the power line, contact with the antenna, mast, cable, or guy wires can cause electrocution and death. Call the power company to remove the antenna. *Do not attempt to remove it yourself.*

ASSEMBLING THE ANTENNA

Assemble the entire antenna on the ground.

1. Use the supplied hardware to loosely attach the supplied mast clamp assembly to the main boom, as shown.

   Note: To access the mast clamp holes, move the antenna's elements out of the way as needed.



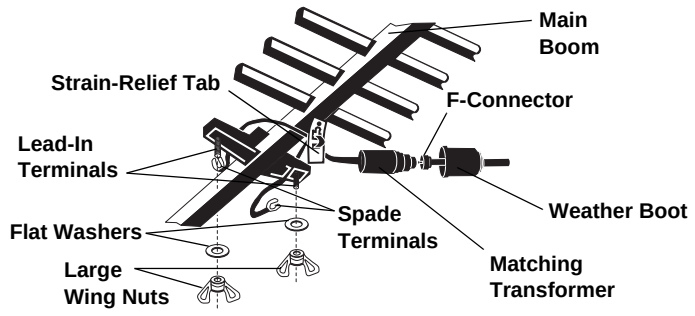
2. Press the supplied large end plugs into the main boom.

CONNECTING LEAD-IN CABLE TO THE ANTENNA

We recommend RG-6 cable and, if you prepare your own cable, a quality F-connector. You can also use 300-ohm flat, twin-lead cable. (RadioShack carries a variety of suitable cables and connectors.)

Note: If you prepare your own coaxial cable, be sure to slide the supplied matching transformer's weather boot onto the cable before you attach the F-connector.

Using Coaxial Cable



If you plan to add this antenna to a VHF antenna's mast, refer to "Adding the UHF Antenna to a VHF Antenna Installation" on Page 2 for instructions. This type of setup requires twin-lead cable. See "Using Twin-Lead Cable" to connect the cable to your antenna. If you are connecting this UHF antenna directly to your TV, follow these steps to make this connection using coaxial cable.

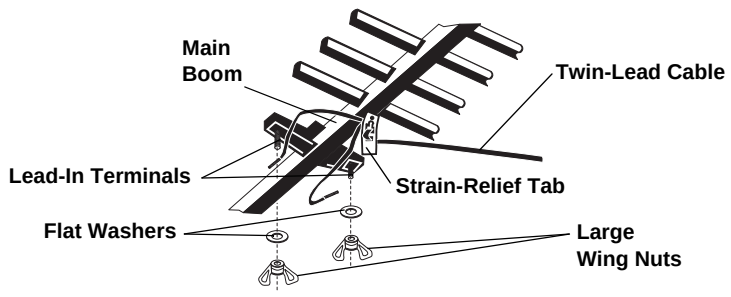
1. Thread a matching transformer's spade terminals through the antenna's strain-relief tab. (Matching transformers are available at your local RadioShack store.)

2. Slide the spade terminals around the antenna's lead-in terminals (on both sides of the boom), then secure them with the supplied flat washers and large wing nuts.

3. Screw the cable's F-connector onto the matching transformer.

4. Slip the weather boot over the connection. If you use a rebuilt cable without a weather boot, cover the connection with weather-resistant tape.

Using Twin-Lead Cable



To connect flat, twin-lead cable to your antenna:

1. Split one end of the twin-lead cable for a length of about 3 inches. Then strip about 1/2 inch of insulation from both leads.

2. Thread the stripped leads through the antenna's strain-relief tab.

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3. Wrap each lead around one of the antenna's lead-in terminals (on both sides of the boom). Be sure there is enough slack between the strain-relief tab and the antenna terminals to prevent stress on the cable or the terminals.

4. Secure the leads with the supplied flat washers and large wing nuts.

UNFOLDING THE ANTENNA'S ELEMENTS

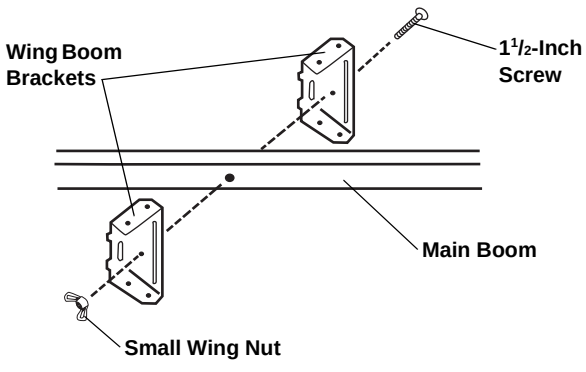
1. Hold the main boom's longer elements near the pivot points and pull them away from the boom until they snap into the self-locking plastic support insulators.

   Caution: To avoid damage to the elements, do not pull them near their outer ends. Once the elements are locked into position, do not attempt to unlock them. Doing so might break the self-locking tabs.

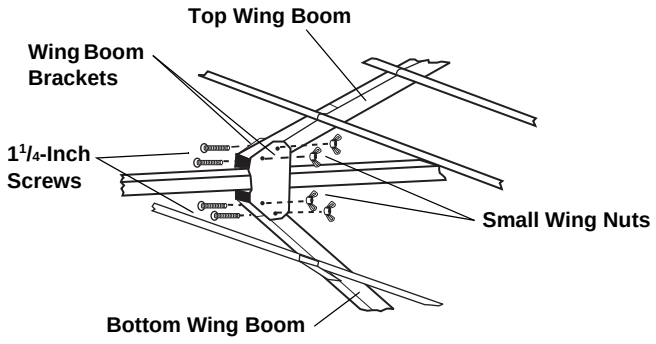
2. Hold each wing boom and turn its elements until they snap squarely into place (perpendicular to the boom).

3. Press the supplied small end plugs into the wing booms.

4. Bolt the triangular wing boom brackets onto the main boom using the supplied 1 1/2-inch screw and small wing nut, as shown.



5. Insert the top and bottom wing booms into the wing boom brackets. Secure them with the four supplied 1 1/4-inch screws and small wing nuts, as shown.



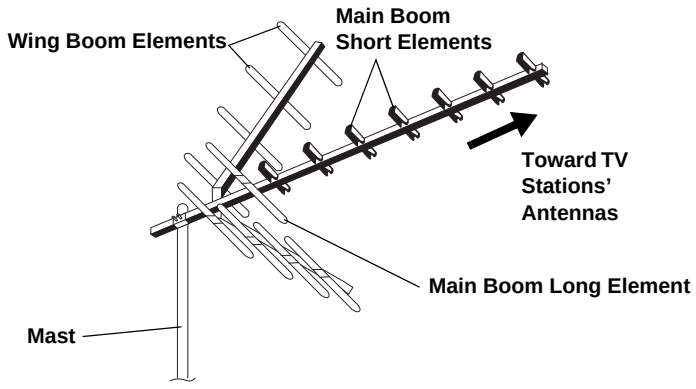
ATTACHING TO THE MAST

We recommend that you enlist the help of another person before you put up the mast or attach your antenna to it. How you set up your mast depends on your specific installation. Refer to the separate Consumer Product Safety Commission information sheet for recommended methods. If you plan to add this antenna to a VHF antenna's mast, refer to "Adding the UHF Antenna to a VHF Antenna Installation" for instructions.

1. Slide the antenna's mast clamp assembly over the end of the mast.

2. Tighten the mast clamp assembly's lock nuts to hold the antenna in place. Do not overtighten the lock nuts.

3. Set up the mast, then rotate it so the antenna's shorter elements point toward the broadcast antennas of the stations you want to receive.



ADDING THE UHF ANTENNA TO A VHF ANTENNA INSTALLATION

To connect your UHF antenna to a VHF antenna, follow these steps.

1. Loosen the lock nuts on the VHF antenna's mast clamp assembly. Slide the VHF antenna down the mast about 70 inches, then tighten the lock nuts to hold the antenna in place. Do not overtighten the lock nuts.

2. Mount your UHF antenna at the top of the mast. (See "Attaching to the Mast.")

3. Use only about 70 inches of twin-lead cable to connect your UHF antenna to the VHF antenna. Be sure the cable is long enough to reach from the lead-in terminals of one antenna to the lead-in terminals of the other. Connect the cable to your UHF antenna first. (Follow the steps in the section "Using Twin-Lead Cable" on Page 1.)

4. Split the other end of the twin-lead cable for a length of about 3 inches. Then strip about 1/2 inch of insulation from both leads.

5. Remove the VHF antenna's large wing nuts and flat washers from its lead-in terminals. (If you used coaxial cable to connect the VHF antenna to your TV, also remove the spade terminals from the lead-in terminals.)

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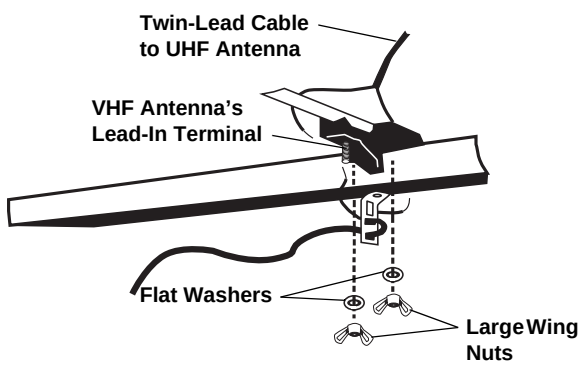
6. Wrap each lead of the twin-lead cable around one of the VHF antenna's lead-in terminals (on both sides of the boom).



7. Replace the spade terminals (if removed in Step 5), flat washers, and large wing nuts.

Note: In some locations, you might need to use an indoor/outdoor 300-ohm splitter/combiner (available at your local RadioShack store) to receive a satisfactory picture on your TV.

ROUTING THE CABLE TO YOUR TV/VCR

If you use coaxial cable:

- Use plastic tape or mast standoff insulators to secure the coaxial cable to the mast at about 3-foot intervals. Continue down the roof and the side of the house using roof and wall standoff insulators.
- Use coaxial cable nail-in clips every few feet to secure the cable between the mast and where the cable enters the house.
- Use a 75-ohm grounding block at the point where the coaxial cable enters the house. Read the Consumer Product Safety Commission sheet for grounding instructions.
- Use a wall-through lead-in tube (not supplied) to neatly route the coaxial cable through walls.

If you use twin-lead cable:

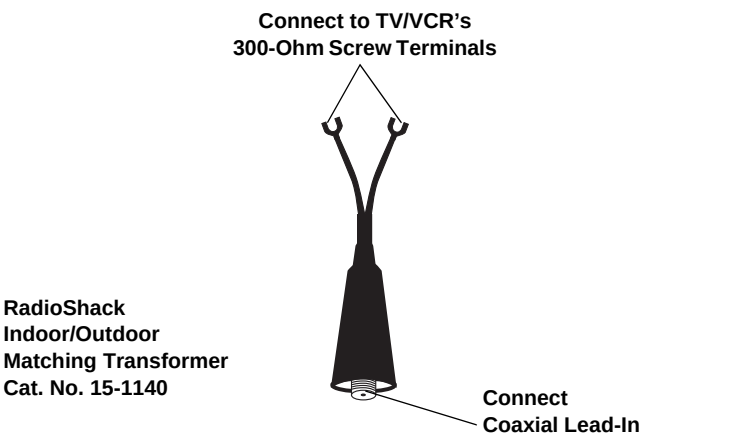
- Be sure the twin-lead cable remains at least 4 inches away from all metal surfaces.
- Use standoff insulators about every 4 feet. Twist the twin-lead cable about three turns between standoff insulators.
- Read the separate Consumer Product Safety Commission sheet for grounding instructions.

CONNECTING TO YOUR TV/VCR

Connect the antenna's lead-in cable to your TV/VCR's antenna terminals according to the type of cable you used. RadioShack carries a variety of matching transformers, if one of these suits your needs. Below are some sample connections.

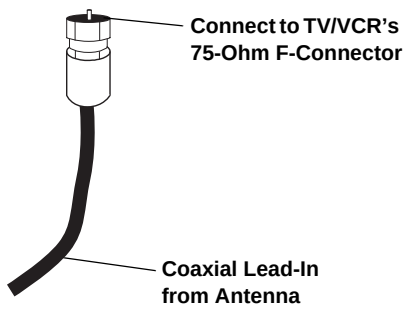
Make connections as described if you have:

- Coaxial antenna lead-in
- Twin-lead TV/VCR antenna terminals



Make connections as described if you have:

- Coaxial antenna lead-in
- Coaxial TV/VCR antenna terminal



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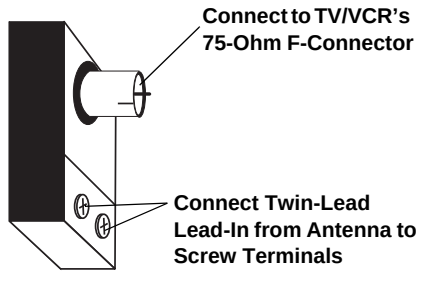
Make connections as described if you have:

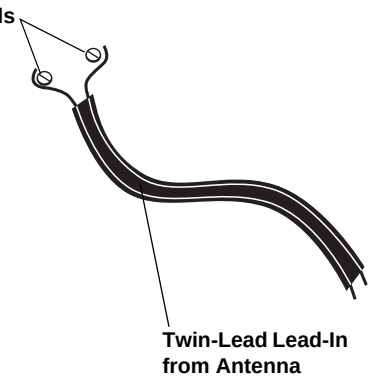
- Twin-lead antenna lead-in
- Coaxial TV/VCR antenna terminal

RadioShack
Matching Transformer
Cat. No. 15-1253



Make connections as described if you have:

- Twin-lead antenna lead-in
- Twin-lead TV/VCR antenna terminals



Limited Ninety-Day Warranty

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Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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